



ANNUAL REPORT

OF

THE MINES DIVISION

OF THE

Department of Mines and Minerals

OF THE

PROVINCE OF ALBERTA

1966

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Edmonton, Alberta, February 6th, 1967.

TO THE HONOURABLE A. RUSSELL PATRICK, Minister of Mines and Minerals

Sir:

I have the honour to submit the Annual Report of the Mines Division of the Department of Mines and Minerals for the year ending December 31st, 1966.

Respectfully submitted,
J. D. B. BROWN,
Director of Mines.

ANNUAL REPORT OF THE MINES DIVISION FOR THE YEAR ENDING DECEMBER 31st, 1966

In this report tonnages are quoted in tons of 2,000 pounds.

The output of coal from the mines in the province was 3,467,254 tons with a valuation of \$12,067,044. This shows an increase of 53,326 tons and a decrease of \$104,957, compared with the previous year.

There were 25,838 tons of coal used to make 27,904 tons of briquettes valued at \$254,858. This shows a decrease of 6,754 tons of briquettes made and a decrease in valuation of \$67,709, compared with the previous year. There were 11,387 tons of char, valued at \$127,946, made from coal and briquettes.

In addition to the above tonnage, there were 535 tons of coal reported as mined by the Blackfoot Indians, at Gleichen, for their own use.

The disposition of coal for 1966 and comparison with the previous year follows:

	1966 (Tons)	1965 (Tons)
Sold for consumption in Alberta	2.034.814	1,928.684
Sold for consumption in British Columbia	197,521	276,608
Sold for consumption in Saskatchewan	376,889	388,796
Sold for consumption in Manitoba	115.771	130,861
Sold for consumption in Ontario	24,893	31,733
Sold for consumption elsewhere	8	85
Sold to the United States	12,206	14,123
Sold to Japan	709,977	614,801
Sold to railway companies	6,631	10,798
Put to stock	113,354	89,960
Put to waste	10,316	9,609

The above tonnages include lifted from stock and waste heaps which are not included in the total output.

The Alberta consumption includes coal used under colliery boilers and includes coal used making briquettes and char.

There were 37 subsurface and strip mines which produced coal during the year, employing 1,146 persons who worked 275,195 shifts. This shows a decrease of 7 mines, a decrease of 35 persons, and a decrease of 13,676 shifts, compared with the previous year. There were 23 strip mines employing 304 persons who worked 76,797 shifts and produced 2,428,852 tons. This shows a decrease of 3 strip mines, a decrease of 34 persons, a decrease of 11,778 shifts and a decrease of 7,360 tons from stripping operations, compared with the previous year.

The number of mines using electrical power during the year was 31. The following table shows the comparison of purchased electrical power in K.W. hrs. by mines for the past ten years.

1957 1958	***************	29,110,288	1962	 20,436,598
1959	***************************************	20,574,436 25,159,068	1963 1964	 22,062,185 21,930,976
1960 1961	***************************************	26,231,225 21,694,596	1965 1966	 20,001,530
1001	***************************************	21,034,390	1900	25,690,710

The total horsepower of electrical motors in use was 29,005 h.p., an increase of 849 h.p., in comparison with 1965. The following tables show a breakdown of horsepower in use, both in subsurface mining operations and strip mining operations.

SUBSURFACE OPERATIONS

Above Ground		Below Ground	
Duty	H.P.	Duty Haulage	H.P.
Haulage Ventilation		Ventilation	812 152
Air Compressing		Pumping	202
Preparation Plants	4,360	Cutting & Loading	3,661
Miscellaneous	1,678	Miscellaneous	382
Total	11,272	Total	5,209

STRIP MINING OPERATIONS

		H.P. 3,629
Pumping		344
Electric Shovels and	Draglines	7,717
Total		12,524

The following figures show the number of certain types of electrical equipment used underground during the past ten years.

1 1			0		_				
1957	1958	1959	1960	1961	1962	1963	1964	1965	1966
Cutting Machines 115	98	73	71	66	56	46	46	36	43
Battery Locomotives 36	31	26	22	25	27	27	22	15	20
Trolley Locomotives 22	21	18	8	10	9	9	7	5	7
Conveyors 46	45	38	30	33	31	30	30	22	25
Coal Drills 86	74	55	56	59	50	53	45	41	49
Continuous Miners 0	0	0	- 1	. 1	1	1	1	2	3
Shuttle Cars 0	0	0	0	0	0	0	2	2	3
Face Loaders 12	13	13	15	17	16	16	9	8	9

Twenty-four quarries produced 1,967,639 tons of shale, clay, limestone, building stone, bentonite and oil sands, an increase of 209,876 tons compared with the previous year.

Two hundred and thirty-six inspections were made under the terms of The Coal Mines Regulation Act, 249 in connection with The Workmen's Compensation Board Regulations and 63 under The Quarries Regulation Act.

In addition to the above, 57 inspections were made at 42 abandoned mining locations. Remedial work was required and completed at 20 mines. Sixteen inspections were made for the cancellation of mining leases.

The total number of accidents in coal mines reported was 33. The number of fatal accidents was 1 compared with 6 in the previous year. This equals .288 fatals per million tons of coal produced.

All complaints made to the Division were investigated.

There were no prosecutions under the Coal Mines Regulation Act.

Written examinations under The Coal Mines Regulation Act were held on May 3rd, 4th and 5th at Edmonton and Calgary with successful candidates as follows:—1 manager, 3 third class, 1 first class mine electrician, 2 managers (strip mine), 4 foremen (strip mine), and 1 surveyor (strip mine). One first class certificate (interchange) was granted.

Written examinations under the Quarries Regulation Act were held on May 4th at Edmonton and Calgary with successful candidates as follows:—2 managers and 1 foreman.

One certificate was issued to a successful candidate for

blaster's certificate on oral examination.

One examination was held for miners' certificates and 1 certificate was issued to a successful candidate. Six substitute miners' certificates, 2 miners' provisional certificates and 35 miners' permits were granted, making a total of 44 certificates issued which is a decrease of 89 certificates for the year.

On March 23rd a fire destroyed the tipple at Mine No. 1604,

operated by Alberta Coal Sales Ltd., at Taber. The cause of the fire was not definitely established but could have been due to spontaneous combustion coupled with a high wind. A temporary coal handling plant was set up within a few days and this arrangement has continued to the present. No definite plans have been made to rebuild.

On May 5th, a fire was discovered by Mr. P. Melson, Assistant Director of Mines, at Mine No. 1692, operated by M. Vitaly at Coalspur. The fire was found in the mine portal. It is believed to have its origin in a fire which destroyed the snowshed the previous year, the debris of which had been pushed to one side, smouldering until found by Mr. Melson. The fire was eventually extinguished after some initial difficulty as it had penetrated into the coal seam.

On June 12th, at Mine No. 443, operated by Battle River Coal Company Limited, at Sheerness, a fire destroyed a smail portable electric switch-house and its contents; four current transformers, one oil breaker and two overload relays.

On July 3rd, south of Blairmore, in the Crowsnest Pass area, two boys were killed and two other boys seriously injured while playing with a box of old detonators which exploded when one boy attempted to open same with a nail. The boys were playing at the town dumping grounds near the old Blairmore South Mine entrance which was sealed off in 1914. Several boxes containing one hundred detonators were later found and destroyed. The detonators are about the size of a .22 rifle shell and were crimped into fuses, a type which has been discontinued in coal mining for a long time. Similar detonators are used in quarrying, road building and railway construction, so it was impossible to find the source of the detonators which were obviously old in appearance.

The char plant operated by Lethbridge Collieries Ltd.,

Shaughnessy, suspended operations in August.

A shortage of experienced underground miners is being felt throughout the province and has restricted output in some of the smaller mines.

Steel Brothers Canada Ltd., Loders Lime Division, Exshaw, have commenced to build a new lime processing plant near Exshaw.

Reclamation of stripped coal mine areas is receiving increasing attention by all concerned and stricter controls may have to be exercised. We will attempt to have these areas restored to as near the original condition with the minimum of delay.

On June 17th, Mr. J. A. Dutton, Director of Mines for the past thirteen years, retired and Mr. J. D. B. Brown was appointed in his stead. Mr. Dutton has earned the highest respect from all those engaged in mining throughout Canada for his efforts in promoting safety and the goals of efficient mining practices in this province.

Mr. P. Melson was appointed Assistant Director of Mines

in June of this year.

In October, Mr. M. Aschacker was appointed District Inspector of Mines for the northern part of Alberta including Edmonton and district.

NUMBER OF MINES PRODUCING, OPENED AND ABANDONED DURING THE YEAR ACCORDING TO AREAS AND KIND OF COAL

Director of Mines - J.D.B. Brown, Agriculture Building, Edmonton, Alberta. Telephone 229-3802

Assistant Director of Mines - P. Melson, Agriculture Building, Edmonton, Alberta. Telephone 229-3803

Electrical Inspector of Mines - J.S. Watson, Agriculture Building, Edmonton, Alberta. Telephone 229-3806

Inspection District	Årea	Area Number	Character of Coal	No. of Mines producing during the year	No. of Mines opened during the year	No. of Mines abandoned during the year	Name and Address of District Inspectors of Mines
Calgary Edmonton Lethbridge	Carbon Cascade Drumheller Gleichen Sheerness Ardley Camrose Castor Coalspur Edmonton Pembina Tofield Westlock Wetaskiwin Brooks Champion Crowsnest Lethbridge Redcliff Taber	6 7 14 17 38 1 1 5 8 11 15 31 42 45 46 3 9 12-13 20 34 41	Sub-bituminous Bituminous Sub-bituminous Bituminous Bituminous Sub-bituminous Sub-bituminous Sub-bituminous	31551 22233431221		1 1	J.J. Kubin, 806-Centre Street South, Calgary, Alta. Tel. 269-6687 M. Aschacker, Room 804, Agriculture Building, Edmonton, Alta. Tel. 229-3805 I.N. Potter, Administration Bldg., 909-3rd Aye. North, Lethbridge, Alta. Tel. 328-4471
Total				37	1	10	

PARTICULARS WITH REFERENCE TO THE COAL MINING INDUSTRY IN THE PROVINCE OF ALBERTA DURING THE YEAR ENDING DECEMBER 31, 1966.

SUMMARY OF STATISTICS

Number of tons of coal produced	3,467,254
	\$ 12,067,044
Number of tons of briquettes made	27,904
Total valuation of briquettes made	\$ 254,858
Number of tons of char made	11,387
Total valuation of char made	\$ 127,946 37
Number of mines opened	í
Number of mines abandoned	10
4 mines or 10.81% of the total operating produced 0.06% of the output	
8 mines or 21.63% of the total operating produced 0.51% of the output	
4 mines or 10.81% of the total operating produced 0.80% of the output	
10 mines or 27.04% of the total operating produced 5.32% of the output	
5 mines or 13.51% of the total operating produced 10.66% of the output	
1 mine or 2.70% of the total operating produced 5.74% of the output 2 mines or 5.40% of the total operating produced 14.71% of the output	
3 mines or 8.10% of the total operating produced 62.20% of the output	
Juntiles of G. 10% of the total operating produced of the output	
Average number of persons employed	1,146
Average number of persons employed in under ground mining	842
Average number of persons employed in strip mining	304
Average number of days worked	240
Total number of manshifts	275,195
Number of separate accidents causing loss of life	1
Number of fatal accidents below ground	1
Number of serious accidents above ground	3
Number of serious accidents below ground	1 9
Number of slight accidents above ground	19
Total purchased electric power (kilowatt hours)	25,690,710
Number of trade name certificates issued	1
Number of provisional managers' certificates issued	1
Number of provisional second class certificates issued	6
Number of provisional electricians certificates issued	1
Number of provisional strip mine manager's certificates issued	1
Number of provisional strip mine foremen's certificates issued	7
Number of provisional miners' certificates issued	2
Number of miners' permits issued	35
Number of miners' certificates issued	1 2
Number of third class certificates issued	3
Number of first class mine electricians certificates issued	í
Number of strip mine manager's certificates issued	3
Number of strip mine foremen's certificates issued	5
Number of strip mine blaster's certificates issued	1
Number os strip mine surveyor's certificates issued	1
Number of first class certificates issued up to Dec. 31/66	315
Number of second class certificates issued up to Dec. 31/66	624
Number of third class certificates issued up to Dec. 31/66	1,865
Number of mine surveyor's certificates issued up to Dec. 31/66	251 176
Number of second class mine electrician's certificates issued up to Dec. 31/66.	139
Number of strip mine manager's certificates issued up to Dec. 31/66	176
Number of strip mine foremen's certificates issued up to Dec. 31/66	261
Number of strip mine blaster's certificates issued up to Dec. 31/66	27
Number of strip mine surveyor's certificates issued up to Dec. 31/66	1
Number of miners' certificates issued up to Dec. 31/66	21,074

PARTICULARS WITH REFERENCE TO QUARRIES IN THE PROVINCE OF ALBERTA DURING THE YEAR ENDING DECEMBER 31, 1966.

SUMMARY OF STATISTICS

Number of tons of limestone produced	1,362,902
Number of tons of bentonite produced	29,529
Number of tons of shale and clay produced	572,734
Number of tons of building stone produced	2,224
Number of tons of oil-sands produced	250
Number of quarries in operation	24
Number of persons employed	186
Average number of days worked	106
Total number of manshifts	36,240
Number of pounds of dynamite used	141,725
Number of pounds of ammonia nitrate used	351,730
Number of detonators used	10,217
Number of shots fired	10,814
Number of primers used	2,024
Number of missed fire shots	5
Amount of prima cord used (feet)	32,500
Number of provisional manager's certificates issued	3
Number of provisional foremen's certificates issued	12
Number of manager's certificates issued	2
Number of foremen's certificates issued	1
Number of blaster's certificates issued	1
Number of manager's certificates issued up to December 31st, 1966	24
Number of foremen's certificates issued up to December 31st, 1966	46
Number of blaster's certificates issued up to December 31st, 1966	63

ANNUAL PRODUCTION AND VALUATION OF COAL FROM MINES IN THE PROVINCE OF ALBERTA For the Years 1947 to 1966 Inclusive

Year	Output Tons	Valuation Dollars
1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965.	8,074,596 8,111,013 8,616,983 8,118,206 7,661,276 7,194,472 5,917,423 4,859,136 4,456,578 4,329,639 3,155,354 2,519,939 2,549,517 2,404,093 2,027,826 2,087,310 2,289,943 2,771,133 3,413,928 3,467,254	\$ 36,317,343 41,875,044 44,541,538 41,631,579 41,000,953 39,974,318 32,158,435 26,349,275 23,486,399 23,283,966 17,287,229 12,778,111 12,892,747 11,439,705 10,471,217 9,983,327 9,866,962 11,189,087 12,172,001 12,067,044

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE For the Years 1947 to 1966 Inclusive

Year	Gross Tons of coal mined	Total Average No. of men employed	Tons of Coal mined per man employed
1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965.	8,074,596 8,111,013 8,616,983 8,118,206 7,661,276 7,194,472 5,917,423 4,859,136 4,456,578 4,329,639 3,155,354 2,519,939 2,549,517 2,404,093 2,027,326 2,087,310 2,289,943 3,413,928 3,447,254	8,772 8,865 8,682 7,999 7,339 6,936 5,760 4,719 3,801 3,443 2,795 2,021 1,720 1,729 1,323 1,281 1,151 1,188 1,181	920 915 993 1,015 1,037 1,037 1,037 1,030 1,172 1,258 1,129 1,247 1,482 1,390 1,533 1,629 1,989 1,989 2,501 2,891 3,026

CLASSIFICATION OF OUTPUT DURING THE YEARS 1947 to 1966 INCLUSIVE (IN TONS)

Juni	Bituminous	Sub-bituminous	Production	Briquettes	Coke
1947	4,837,376	3,237,220	81,128	282,898	
1948	4,920,796	3,190,217	78,795	321,574	
1949	5,495,327	3,121,656	91,361	760,643	
1950	4,793,020	3,325,186	23,079	558,607	
1951	4,659,289	3,001,987	6,957	372,768	_
1952	4,378,622	2,815,850	3,474	661.862	527
1953	3,517,499	2,399,924		665,556	
1954	2,402,185	2,456,951		635.501	
1955	2,114,892	2,341,686		435,785	
1956	2,064,723	2,264,916		525,202	
1957	1,265,844	1,889,510		265,645	
1958	834,256	1,685,683		128,512	
1959	814,819	1,734,698		667.66	_
1960	863,517	1,540,576	* 2,352	111,777	*
1961	666,226	1,361,600	* 661	34.534	¥
1962	590,139	1,497,171	•	28,631	*
1963	635,650	1,654,293	* 843	37,358	*
1,964	866,221	2,104,912	* 6,412	38,230	¥
1965	859,176	2,554,752	* 46,016	34,658	*
1966	879,569	2,587,685	* 28,824	27,904	* 11,387

* Char

AMOUNT OF COAL SOLD DURING THE YEARS 1947 to 1966 INCLUSIVE FOR CONSUMPTION IN:

(IN TONS)

Total	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,433,989	1,377,914	7,617,632	7,226,413	6,891,212	6,147,582	4,960,238	4, 107, 051	2 755 516	0,000	2,202,733	2, (84, 760	4,354,308	2,351,110	2,222,355	1 951. 627	2000000	2,013,301	6,2/2,113	2,958,791	3,396,489	3,478,410	
China and Japan	00,00	75, 192 200, 2192	776,002	5,475	• !	44,317	1,588	:	:		:		40,740	ZC, 12	124, 719	361,336	373 720	316 727	201000	4TO, 228	612,544	614.801	709,977	
U.S.A.	300 10	91,105	04,447	2)6,64	105,765	80,270	71,817	47,119	33,124	32.941	7,5,600	2/0,01	27,017	401610	33,422	30,283	18,066	9,219	1000	2000	14,805	14,123	12,206	
Quebec		• 0	2	:	:	:	:	:	:		120	165	100	3 6	2 !	157	115	75	110		00 X		to *	
Ontario	162.898	202 520	187 976	312 563	182 753	106,201	TSC,021	(3,117	85,836	90,727	75,029	68,379	54.887	50 808	2000	40,305	35,466	29,952	20,300	20 00	702,207	31,73	24,893	
Manitoba	583.414	625,009	629 56	586, 920	1.92 737	200	704,724	27,49,78	474,455	293,719	304,918	247,480	226,302	239, 503	200	27,5,102	129,744	153,561	131.471	122,500	20000	TOD, 00T	115,771	
Sask.	1,475,006	1,413,283	1,232,890	1,366,723	1,322,162	712 176 1	100 E	1,004,004	742,882	893,377	871,719	680,297	584,025	549.663	262 262	000	275,848	347,012	343.634	279 171	702 000	200,170	376,589	
B.C.	899,403	945,700	891,132	873,558	898,533	1,81, LSO. L	960 305	יסר ניסט	477,174	734,104	860,329	672,527	532,911	437,118	379 KAR	000	361,707	283,651	262,433	261,990	276, 600	200,000	12(,)21	
Alberta	1,671,130	1,593,629	1,614,306	1,672,519	1,427,114	1.234.307	1 01.5 7.82	1 06/ 817	170400 T	T,000,279	1,020,538	876,395	838,535	874,622	84.5 806	107	174,031	70T,107	1,073,606	1,620,893	1 928 KRJ.	200000000000000000000000000000000000000	4,004,014	
Railways	2,504,604	2,312,273	3,012,425	2,308,365	2,443,326	2,065,365	1,625,783	71.3 71.3	22,620	477,039	385,388	152,693	26,420	39,122	1.045	51 128	2000	34,003	16,001	14,451	10,798	6 631	1000	
Year	1947	1948	1949	1950	1951	1952	1953	1954	1955	3056	1770	195/	TA28	1959	1960	1961	1062	1060	T303	T964	1965	1966		

*** Includes 4,107 tons to Ships Bunkers
x Includes 46 tons to N.W.T.
* Includes 8 tons to West Germany

COAL PRODUCED BY YEARS FROM 1962 to 1966 BITUMINOUS COAL FIELD

Areas	1962	1963	1964	1965	1966
Group 1: Cascade	217,050 300,983 6,263 65,843	215,269 360,268 5,206 280 54,627	240,505 554,783 5,896 65,037	243,084 609,408 194 6,490	245,469 632,974 1,126
Total	590,139	635,650	866,221	859,176	879,569

SUB-BITUMINOUS COAL FIELD

Group 4: Ardley. Brooks. Carbon. Champion. Drumheller. Edmonton. Gleichen. Pembina. Taber. Wetaskiwin. Group 5: Camrose. Castor. Redoliff. Sheernes. Tofield. Westlock.	39,817 7,652 18,009 4,88,3 342,240 90,111 2,116 196,271 37,977 2,784 24,943 513,148 2,211 174,167 20,062 20,820	38,405 6,633 15,195 3,710 305,508 85,316 1,470 358,275 28,967 2,575 23,019 569,868 2,023 174,601 17,550 21,178	34,405 6,942 14,011 3,151 246,123 86,478 829 27,116 2,341 615,072 1,993 164,364 15,390 22,005	32,034 6,783 11,731 3,028 285,175 92,277 223 968,488 104,398 1,750 26,400 768,181 2,016 210,746 17,370 24,152	30,358 6,384 9,026 1,507 231,89; 80,288 1,133,184 66,676 1,377 17,808 774,338 1,856 15,504 24,250
Total	1,497,171	1,654,293	2,104,912	2,554,752	2,587,685

How the total Tonnage of BITUMINCUS COAL from the Province was disposed of by areas during 1966

			Sold	Sold for Consumption in:	umption i	n:								ı
Areas	os blog Rawlian Seinagmoo	Alberta	British Solumbis	геак.	sdotinsM	oinsta	betinU setat2	Japan	Total Interposition	Put to Stock	Put to Waste	Lifted from Stock	Lifted from	agannoT fatoT
Group 1: Cascade	1481	30290	13434	:	246	17429	10786	189666	263332	34679	:	45995	6547	245469
Group 2: Crowsnest	:	16924	88581	:	1633	3011	1420	520311	631880	47523	:	46429	:	632974
Group 3: Lethbridge	:	704	72	:	:	:	:	:	116	350	:	:	:	1126
Total:	1481	47918	102087	÷	1879	20440	12206	709977	895988	82552	:	92424	6547	879569
TOIGHT	1401	41714	TOSOT	:	1017	20440	15500	102211	207770	36,550	:	764	± ±	-

How the total Tonnage of SUB-BITUMINOUS COAL from the Province was disposed of by areas during 1966

			Sol	Sold for Consumption in:	sumption	ins			Ţ	ЭK	Đ:	U	0	927
	cold to Railway Companies	Alberta	deitird SidmufoO	Sask.	adotinaM	oiwetnO	gnepec	United	TetoT no it i soqe id	oots ot tuq	Fut to Wast	Lifted from	Lifted from	snnoT 1stoT
Ardley	:	30085	:	:	:	:	:	:	30085	:	273	:	:	30358
	:	6609	285	:	:	:	:	:	6384	:	:	:	:	6384
	:	9028	:	:	:	:	:	:	9028	:	:	:	:	9028
Champion	:	1507	:	:	:	:	:	:	1507	:	:	:	:	1507
Drumheller	1051	106693	41293	66557	17164	3492	:	:	236250	30802	159	35318	:	231893
Edmonton		79739	:	:	:	549	:	:	80288	:	:	:	:	80288
Pembina	:	1133172	:	:	:	:	*0	:	1133180	:	:	:	:	1133180
Taber	:	41617	14564	4012	477	:	:	:	02909	:	:	:	:	02909
Wetaskiwin	:	1372	:	:	:	:	:	:	1372	:	:	:	:	1372
Camrose	:	13832	:	:	:	:	:	:	13832	:	3976	::	:	17808
Castor	3272	507924	35099	160263	92699	285	:	:	773819	:	1057	537	:	774339
Redcliff	:	1711	:	:	:	:	:	:	1711	:	145	:	:	1856
Sheerness	827	19069	4193	145757	29275	127	:	:	199248	:	:	:	:	199248
Tofield	:	12795	:	:	:	:	:	:	12795	:	2709	:	:	15504
Westlock	:	22253	:	:	:	:	:	:	22253	:	1997	:	:	24250
	5150	1986896	95434	376589	113892	4453	* 60	:	2582422	30802	10316	35855	÷	2587685
10, 11, 10, 11, 11, 11, 11, 11, 11, 11,							-		-			-		

*8 Tons - West Germany

How the total Tonnage of COAL from the Province was disposed of by months during 1966

	egannol Latol	412466 351486 3514820 234623 234623 235648 201434 201233 271627 416851 429050	3467254			27904		11387
	morf betfin		6547			i		:
	ifted from		128279			1109		525
	etse ot tu	1839 1332 1332 1332 30 125 1327 1327 1327 1327	10316			2423		4124
	Met to Stock	2508 6197 1309 11122 22577 22577 18963 24694 1658	113354		cing 1966	1175	996	436
	lstol moitisoqsi0		3478410		How the total Tonnage of BRIQUETIES from the Province was disposed of during 1966	25415	How the total Tonnage of CHAR from the Province was disposed of during 1966	7349
	uedeg	60822 58821 79675 647476 64280 53237 43149 41680 78944 78944 78944 78944 78944 78944 78944 78944	709977	20.41	ss dispos	:	posed of	:
	bet int setete		12206	.35	rovince	:	th was di	7033
	уперес	* · · · · · · · · · · · · · · · · · · ·	# 60	:	rom the	÷	ne Provinc	:
mption in	ofrein	6054 1390 1390 1053 481 1192 2801 3002 3227	24893	-72	QUETTES 1	1444	R from th	:
Sold for Consumption in	adotinal	21770 14109 6226 1425 1215 671 117 1611 10512 20707 21500 15908	115771	3.33	ige of BRI	407	ige of CHA	÷
Sold	gask.	49112 58760 18192 4104 1572 1646 3250 12970 42599 73633 110403	376589	10.83	otal Tonne	%	otal Tonne	:
	daltina aidmuloi		197521	5.68	low the to	2344	low the to	316
	Alberta	250477 174200 1474200 1474200 1474200 113290 113290 113290 113290 1145267 123108 12520 125	2034814	58.49	jei ,	16211	4	:
	old to Mawliay asinaçmo	1 77 1	6631	.19	,	4973		:
	Months	January February March May June June June June June June June June	Total	% of Total Dispositions		Briquettes:		Char:

How the total Tonnage of BITUMINGUS COAL was disposed of by months during 1966

				Sold for	Sold for Consumption in:	tion int									E
Months	Sold to Railway Companies	Alberta	dsitird aidmuloO	28вк°	sdotinsM	oitstnO	диерес	betinU setst2	neget	TstoT noitisoqsid	Fut to Stock	etsew of tud	Lifted from	Lifted from	RennoT 1stoT
mettue].	34.5	7500	11603			6010		1106	60803	86.105	782		8.403	101	77867
February	314	6650	8325	: :	: :	2228	: :	1084	58821	77422	5665		3500	199	79027
March	88	1,62	9887	:	:	1350	:	1110	19678	97963	933	:	9210	610	89076
April	:	3238	8883	:	:	458	:	1094	64745	78418	3794	:	965	495	80752
May	36	2409	9166	:	743	1053	:	858	64280	79295	100	:	3793	23	75021
June	48	2677	10177	:	514	404	:	1048	53237	68105	11512	:	:	436	79181
July	45	990	8507	:	:	63	:	1110	43149	53864	100	:	17012	356	36596
August	132	2172	8686	:	:	1007	:	626	41680	54636	18407	:	66	499	72445
September	43	2883	0996	:	352	1860	:	1344	78944	95086	100	:	18476	619	76031
October	238	5437	5284	:	.66	2134	:	1004	33018	47214	22559	:	2192	201	67080
November	197	3711	5511	:	:	1845	:	927	82901	95092	300	:	20993	356	74043
December	194	4392	5648	:	171	2819	:	472	48702	62398	18496	:	1691	753	72450
Total:	1481	47918	102087	:	1879	20440	:	12206	7709977	895568	82552	:	92424	6547	879569
% of Total Disposition:	• 02	5.35	11.39	:	•02	2.28	:	1.36	79.58						
The state of the s		-	1				-		-						

How the total Tonnage of SUB-BITUMINOUS COAL was disposed of by months during 1966

				Sold for	Sold for Consumption in:	ion in:									
Months	Sold to Railway Companies	Alberta	dsititd BidmufoO	Sask.	sdotinsM	oivatnO	диерес	bət inU sətst	negal	TstoT noitisogsid	Put to Stock	etsaw of tud	Lifted from Stock	mori betiti etesW	egannoT fatoT
January	520	242968	16695	49112	21770	835	:	:	:	331900	1922	1839	1062	:	334599
February	879	189401	2606	58760	14109	277	*	:	:	272531	532	1332	2002	:	272393
March	717	168350	8273	18192	9239	40	:	:	:	201798	376	760	3176	:	199758
April	305	144188	5586	4104	1425	:	:	:	:	155605	330	537	2601	:	153871
May	274	143007	4193	1572	472	:	:	:	:	149518	11112	8	33	:	160627
June	:	110613	4332	1646	157	77	:	:	:	116825	11065	12	630	:	127272
July	:	73338	992	348	117	:	:	:	:	74795	:	2	:	:	74800
August	02	120936	3665	3250	1611	185	:	:	:	129717	556	24	1509	:	128788
September	190	142384	9898	12970	10160	941	:	:	:	175331	168	259	168	:	175596
October	1114	194331	10273	42599	20608	898	:	:	:	269793	2135	1327	12682	:	260573
November	869	236983	13003	73633	21500	822	:	:	:	346810	1358	2321	7681	:	342808
December	215	220397	10639	110403	15737	408	:	:	:	357799	519	1870	3588	:	356600
Total:	5150	1986896	95434	376589	113892	4453	*8		:	2582422	30802	10316	35855	:	2587685
% of Total Disposition:	•20	76.95	3.69	14.58	4.41	.17	:	:	:						

*8 Tons - West Germany

PER CAPITA PRODUCTION OF MINES BY AREAS BITUMINOUS COAL FIELD

		Strip and	Strip and Underground Mining	and Mining			()	Strip Mining	bo			Und	Underpround Mining	Uning	
Area	Gross tons of coal mined	Total average No. of men employ-	Total Tons average of coal No. of mined men per man employ- employed	Total No, of man- shifts	Tons of coal mined per eight hour man-	Gross tons of coal	Total average No. of men employ- ed	Tons of coal mined per man employed	Total No. of man- shifts	Tons of coal mined per eight hour man-	Gross tons of coal	Total average No. of men employ-	Total Tons average of cal No. of mined men per man employ- employed ed	Total No. of man- shifts	Tons of coal mined per eight hour man-shift
Group 1: Cascade	245,469	226	1,086	677,95	4.35	:	:	;	:	:	245,469	226	1,086	56,449	4.35
Growsnest	632,974	654	1,379	112,886	5.61	86,858	34	2,555	9,108	9.53	546,116	425	1,285	103,778	5.26
Group 3: Lethbridge	1,126	2	563	380	2.97	:	:	:	:	:	1,126	2	563	380	2.97
Total	879,569	289	1,280	169,715	5.18	858,38	34	2,555	901,6	9.53	792,711	653	1,214	160,607	4.93

SUB-BITUMINOUS COAL FIELD

														, ,		
: :	1,36	7.77	5.04	:	:	:	:	:	2,44	:	:	:	6.50		4.93	5.23
: :	959	650	13,229	:	:	:	:	:	762	:	:	:	37,791		160,607	198,398
: :	222	502	1,110	:	:	:	:	:	797	:	:	:	1,300		1,214	1,233
: :	- 4	118	09	:	:	:	:	:	4	:	:	:	189		653	2718
: :	890	174,817	66,621	:	:	:	:	:	1,856	:	:	:	245,691		792,711	1,038,402
15.53	9.45	28.09	12.75	63.91	10.03	5.91	12.89	32.59	:	25.99	14.74	15,36	34.59		9.53	31,62
1,955	864	2,032	1,072	17,730	840,0	232	1,381	23,757	:	7,665	1,052	1,579	64,689		9,108	76,797
4,337	2,713	6,342	2,733	15,313	2,528	1,3/2	2,968	8,509	:	6,642	3,876	7,042	8,674		2,555	7,990
10	m	:6	5	7,7	4.	7	9	16	:	39	4	9	270	RY	34, 270	304
30,358	8,138	57,076	13,667	1,133,180	0/0,00	1,372	17,808	774,339	:	199,248	15,504	24,250	2,341,994	SUMMARY	86,858 2,341,994	2,428,852
15.53	5.94	9.45	5.61	63.91	LO.01	2.91	12.89	32.59	2.14	25.99	14.74	15.36	24.53		5.18	12.59
1,955	1,520	24,526	14,301	17,730	870,0	757	1,381	23,757	762	7,665	1,052	1,579	105,480		169,715	275,195
4,337	1,289	1,826	1,235	15,313	2,528	1,372	2,968	8,509	797	6,642	3,876	4,042	5,638		1,280	3,026
10	-	127	99	47.	77	-	9	91	7	3	7	9	657		654	1,146
30,358	9,028	231,893	80,288	1,133,180	60,670	1,372	17,808	774,339	1,856	199,248	15,504	24,250	2,587,685		879,569	3,467,254
Group 4: Ardley	Carbon	Champion Drumheller	Edmonton	Pembina	Taber	Wetaskiwin	Camro se	Castor	Redcliff	Sheerness	Tofield	Westlock	Total		Bituminous Sub-Bituminous	Total

OUTPUT AND NUMBER OF MINES PRODUCING

Land to burix	Unde 1,00	Under 1,000 Tons	2,0	1,000 to 5,000 Tons	5,0	5,000 to	10,	10,000 to 50,000 Tons	100,	50,000 to	100	,000 to	150	,000 to	300	100,000 to 150,000 to 200,000 to 0ver 150,000 Tons 200,000 Tons 300,000 Tons	0ver 300,	000 Tons		Total
	No.	Output	No.	Output	No.	Output	No.	Output No. Output No. Output No. Output No. Output No. Output No. Output	No.	Output	No.	Output	ē.	Output	No.	No. Output No. Output	· og	Output	No.	Output
Bituminous	:	:	ε.	6,785	:	:	:	:	-	83,443	:	:	:	:	п	1 245,469 1 543,872 6 879,569		543,872	9	879,569
Sub-bituminous	4	4 1,967	2	11,103	4	27,481	10	5 11,103 4 27,481 10 184,484 4 286,367	4		:		-	199,248 1 264,459	-	264,459	2 1	2 1,612,576 31 2587,685	31.2	587,685
Total	4	1,967	00	17,888	-4	27,481	10	8 17,888 4 27,481 10 184,484 5 369,810	5	369,810	:	:	п	199,248	2	1 199,248 2 509,928 3 2,156,448 37 3,467,254	3	156,448	37	3,467,254

SIZE GRAD- AREA ING	RUN OF MINE	LUMP OR COBBLE	EGG	NUT OR STOVE	PRE- PARED STOKER	NUT SLACK	SLACK	TOTAL BY AREA.
		FOR C	ONSUMPTIO	N IN ALBE	RTA			
Cascade	3150	284		9	199		26648	30290
Crowsnest		1083	•••		2899		12942	16924
Lethbridge	65	311	142	8	132	20	26	704
Ardley		8371	5702	1454	11450		3108	30085
Brooks		2378		823	1941		957	6099
Carbon	3141	658		778	2274	151	2026	9028
Champion		255		461	424		367	1507
Drumheller	153	12842	2917	4389	13180	42331	30881	106693
Edmonton	527	17885	3073	24095	19122	8	15029	79739
Pembina		4396	6943	4757	6360	1109338	1378	1133172
Taber	3714	369	2196	2817	30188		2333	41617
Wetaskiwin		437	192	393	195	64	91	1372
Camrose		3193	4440	1533	2598	525	1543	13832
Castor	218990	45809	19780	18257	91860	1386	111842	507924
Redcliff		1333	•••	298	80		• • •	1711
Sheerness		2494	2019	2709	11266		581	19069
Tofield		1697	3715	1626	5620		137	12795
Westlock		4815		10835	5000	582	1021	22253
Total	229740	108610	51119	75242	204788	1154405	210910	2034814

SIZE GRAD- ING	RUN OF	LUMP OR COBBLE	EGG	NUT OR STOVE	PRE- PARED STOKER	NUT SLACK	SLACK	TOTAL BY AREA.
		FOR C	ONSUMPTIC	N IN BRIT	ISH COLUM	BIA		
Cascade		828		595	11942		69	13434
Crowsnest		•••			6701		81880	88581
Lethbridge					72			72
Brooks				285				285
Drumheller		16508	11365	2035	11367		18	41293
Taber		165	749	182	9079	4313	76	14564
Castor		8869	2329	1620	19694	2545	42	35099
Sheerness	•••	•••	41	•••	4152	•••		4193
Total	• • •	26370	14484	4717	63007	6858	82085	197521
				V IN SASK			25400	((55)
Drumheller	***	33687	11503	4277	1601	***	15489	66557
Taber	330536	10304	0670	17100	44	(700	3968	4012
Sheerness	110536 51534	10304 2210	2670 1272	17102 13517	9746 15352	6708 20797	3197 41075	160263 145757
Total	162070	46201	15445	34896	26743	27505	63729	376589

SIZE GRAD- ING	RUN OF MINE	LUMP OR COBBLE	EGG	NUT OR STOVE	PRE- PARED STOKER	NUT SLACK	SLACK	TOTAL BY AREA.
		FOR C	ONSUMPTIO	N IN MANI	TOBA			
Cascade		•••		•••	246			246
Crowsnest					318	1315		1633
Drumheller	•••	12219	3436	364	1145	•••		17164
Taber			477					477
Castor	•••	12609	1848	2325	50194			66976
Sheerness	•••	1160	91	1810	26214			29275
Total		25988	58 52	4499	78117	1315	•••	115771
		FOR C	ONSUMPTIO	IN WEST	GERMANY			
Pembina		•••	•••	•••	•••	8	• • •	.8
Total	•••	•••	***	***	• • •	8	***	8
		FOR C	ONSUMPTIO	BY RAIL	YAY COMPAN	IES		
Cascade	396	389	•••		696			1481
Drumheller		206	421	424				1051
Castor		•••	3114	41	48	•••	69	3272
Sheerness	•••	•••	725	•••	102		•••	827
Total	396	595	4260	465	846	•••	69	6631
			1					

SIZE GRAD- AREA ING	RUN OF MINE	LUMP OR COBBLE	EGG	NUT OR STOVE	PRE- PARED STOKER	NUT SLACK	SLACK	TOTAL BY AREA.
		FOR C	ONSUMPTIO	N IN ONTA	RIO			
Cascade		561			14602	2213	53	17429
Crowsnest					3011			3011
Drumheller		2420	994		78			3492
Edmonton		336		213				5549
Castor		266	19					285
Sheerness		52	37		38	• • •		127
Total		3635	1050	213	17729	2213	53	24893
		FOR C	onsumptic	N IN UNIT	ED STATES			
Cascade	8853					1880	53	10786
Crowsnest	•••	•••	•••	•••	820	600		1420
Total	8853	•••	•••	•••	820	2480	53	12206
		FOR C	ONSUMPTIC	N IN JAPA	N			
Cascade	•••				• • •	•••	189666	189666
Crowsnest		•••	•••		•••	520311		520311
Total			•••	•••	•••	520311	189666	709977

DISPOSITION OF ALBERTA COAL

1966 INDUSTRIAL DEALERS FOR DOLESTIC CONSTURENCES ENFLOYEES BRIQUETTES CHAR CONSTURENCES LAGGE CONSTURENCES LAGGE CONSTURENCES LAGGE CONSTURENCES LAGGE CONSTURENCES LAGGE LAGGE									
INDUSTRIAL DEALERS FOR DOMESTIC	;		TOS	D TO		USED 1	AAKING	FOR	
Nat	1966	INDUSTRIAL	DEALERS FOR RE-SALE	DOMESTIC	EMPLOYEES	BRIQUETTES	CHAR	BOILFRS, RAILROADS FIC.	TOTAL TONNAGE
ARY 128476 10686 50265 394 2203 127312 6124 33080 190 2761 128300 1809 10906 130 2761 1284300 1809 10906 130 1756 125470 631 2727 57 1950 104312 155 2705 46 2068 104175 1168 5225 93 1594 ER 123737 4973 13990 177 2194 ER 135098 24277 74352 429 2316 BER 148382 21133 51483 441 3093 1497427 113762 362896 2729 27838 2	JANUARY	146747	25296	70412	478	3174	3988	382	250477
127312	FEBRUARY	128476	10686	50265	394	2203	3473	554	196051
128 300 1809 10908 130 1756 135470 631 2727 57 1950 104312 1355 2705 46 2068 130 14175 1168 5225 93 1594 114175 1168 5225 93 1594 123687 17472 46566 283 2515 2588 148382 21133 51483 441 3093 25888 2	MARCH	127312	6124	33080	190	2761	4274	459	174200
631 2727 57 1950 155 2705 46 2068 38 1185 11 154 1168 5225 93 1594 4973 13990 177 2194 2477 74352 429 2315 22133 51483 441 3093 113762 362896 2729 25836 2	APRIL	128300	1809	10908	130	1756	4158	365	147426
104312 155 2705 46 2068	MAY	135470	631	2727	57	1950	4261	320	145416
11475 1166 5225 93 1594	JUNE	104312	155	2705	46	2068	3694	310	113290
114175 1168 5225 93 1594 123737 4973 13990 177 2194 132667 17472 46566 283 2515 139096 24277 74352 429 2376 1497427 113762 362896 2729 22936 28	TULY	68731	æ	1185	11	154	4109	100	74328
12377 4973 13990 177 2194	AUGUST	114175	1168	5225	93	1594	773	80	123108
ER 132667 17472 46566 283 2515 ERR 139096 24277 74352 429 2376 ERR 148382 21133 51483 441 3093 1497427 113762 362898 2729 25838	SEPTEMBER	123737	4973	13990	177	2194	94	102	145267
BER 139998 24277 74352 429 2376 BER 148382 21133 51483 441 3093 1497427 113762 362896 2729 25838	CTOBER	132687	17472	46566	283	2515	9 0 0	245	199768
BER 146382 21133 51483 441 3093 1497427 113762 362896 2729 27838	NOVEMBER	139098	24277	74352	429	2376	•	162	240694
1497427 113762 362898 2729 27838	DECEMBER	148382	21133	51483	441	3093	•	257	224789
1497427 113762 362898 2729 2753.8									
	TOTAL	1497427	113762	362898	2729	25838	28824	3336	2034814
					And distribution of the second				
-					The state of the s	-			
		_	_			_			

PRODUCTION OF COAL PER EIGHT-HOUR MAN-SHIFT For the Years 1947 to 1966 Inclusive

Year	Gross tons of coal mined	Total No. of Eight- hour Man-shifts	Average No. of tons of coal mined Per Eight-hour shift
1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1962. 1963. 1964. 1965. 1966.	8,074,596 8,111,013 8,616,983 8,118,206 7,661,276 7,194,472 5,917,423 4,859,136 4,456,578 4,329,639 3,155,354 2,519,939 2,540,093 2,027,826 2,027,826 2,027,826 2,027,826 3,451,928 3,457,254	1,998,002 1,894,837 1,910,922 1,735,316 1,683,061 1,522,264 1,141,531 943,558 783,239 750,318 535,346 386,636 377,870 366,970 285,142 277,198 254,671 285,039 288,371 275,195	4,041 4,280 4,510 4,678 4,552 4,726 5,184 5,150 5,690 5,770 5,894 6,517 6,747 6,551 7,112 7,530 8,992 10,423 11,820 12,590

AMOUNT OF MINE TIMBER USED DURING THE YEAR BITUMINOUS COAL FIELD

Area	Timber lineal feet	Lumber B.M. feet	Lagging lineal feet	Ties lineal feet	Sprags lineal feet
Group 1:	460,547		847.811	13,356	
Group 2: Growsnest Group 3:	1,006,890	684,155	108,914	3,201	
Lethbridge	7,600	•••		600	•••
Total	1,475,037	684,155	956,725	17,157	

SUB-BITUMINOUS COAL FIELD

Group 4: Carbon Champion. Drumheller. Edmonton. Group 5: Redeliff.	13,000 3,011 251,931 152,660 14,024	19,000	4,660	1,310 400 35,113 8,500	::: :::
Total	434,626	19,000	27,700	45,323 -	

PARTICULARS OF LAMPS IN THE BITUMINOUS AND SUB-BITUMINOUS COAL FIELDS DURING THE YEARS 1965 and 1966.

BITUMINOUS COAL FIELD	1965	1966
Portable Electric Lamps, Edison Cap Type Wolfe Flame Type Total	768 73 841	505 39 544
SUB-BITUMINOUS COAL FIELD		
Portable Electric Lamps, Edison Cap Type Wolfe Flame Type	266 23	276 18
Total	289	294

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING COAL BITUMINOUS COAL FIELD

			Name	of Explosi	/es			
Area	Pellet	Monobel	BL-100	CXL-ite	Airdox	Cardox	Forcite	Total
Group 1: Cascade		42,600			•••			42,60
Group 2: Crowsnest Group 3:		5,780		21,796			19,678	47,25
Lethbridge		350						35
	and an analysis of the control of th							
Total		48,730		21,796			19,678	90,20

SUB-BITUMINGUS COAL FIELD

Group 4: Ardley. Brooks Carbon Champion Drumheller Edmonton Pembina. Wetaskiwin. Group 5: Camrose Castor Redcliff Tofield Westlock		1,100 107 675 200 18 8 12,769 18,280 530	3,950 3,307 3,000 350	 17,500	 150 5,000 240 450 2,800	5,050 3,414 825 200 17,518 12,769 8,000 240 450 18,280 530 2,800 350
Total	• • •	33,679	10,607	 17,500	 8,640	70,426

ESTIMATED NUMBER OF SHOTS FIRED FOR BLASTING COAL

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Airdox	Total
Group 1: Cascade Group 2: Crowsnest Group 3: Lethbridge	43,490 8,750 750	 		43,490 8,750 750
Total	52,990	•••		52,990

SUB-BITUMINOUS COAL FIELD

437 Tofield. 872 873 Westlock. 1,000 1,000				
	Total	44,037	 17,500	61,537

NUMBER OF TONS OF COAL PRODUCED PER POUND OF EXPLOSIVES USED

BITUMINOUS COAL FIELD

Area	Number of tons of coal mined	Number of pounds of explosives used	Tons of coal mined per pound of explosives used
Group 1: Cascade Group 2: Crowsnest Group 3: Lethbridge	245,469 632,974 1,126	42,600 47,254 350	5.76 13.40 3.22
Total	879,569	90,204	9.75
	SUB-BITUMINOUS CO	AL FIELD	
Group 4: Ardley. Brooks. Carbon. Champion. Drumheller. Edmonton. Pembina. Taber. Wetaskiwin. Group 5: Camrose. Castor. Redcliff. Sheerness. Tofield. Westlock.	30,358 6,384 9,028 1,507 231,893 80,288 1,133,180 60,670 1,372 17,808 774,339 1,856 199,248 15,504 24,250	5,050 3,414 825 200 17,518 12,769 8,000 240 450 18,280 530 2,800 350	6.00 1.87 10.94 7.53 13.24 6.29 141.64 5.72 39.57 42.36 3.50 5.54 69.29
Total	2,587,685	70,426	36.74

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING ROCK IN COAL MINES

BITUMINOUS COAL FIELD

Area	Pellet	Monobel	BL-100	CXL-ite	Airdox	Cardox	Forcite	Total
Group 1: Cascade Group 2:		•••	•••	7,500			•••	7,500
Crowsnest	•••	•••	•••	•••			3,500	3,500
Total		•••	•••	7,500			3,500	11,000

SUB-BITUMINOUS COAL FIELD

Group 4: Brooks Carbon. Drumheller Taber. Group 5: Redcliff		75 56 	 	 	1,968	1,968 75 56 905
Total	•••	143	 •••	 	2,873	3,016

ESTIMATED NUMBER OF SHOTS FIRED FOR BLASTING ROCK IN COAL MINES

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Total						
Cascade Crowsnest	7,660 500		7,660 500						
Total	8,160		8,160						
	SUB-BITUMINOUS COAL FIELD								
Brooks. Carbon. Drumheller Taber. Redcliff.	100 56 547 10		44, 100 56 547 10						
Total	757	•••	757						

ELECTRICITY

	Number of Mines using		of Electrical nt in Use	Total	Purchased
Area	Electricity	Above Ground	Below Ground	Horsepower	Power
Ardley Brooks Camrose Carbon. Cascade Castor Champion Crowanest Drumheller Edmonton Lethbridge Pembina Redcliff Sheerness Taber. Tofield Westlock Wetaskiwin	1 1 1 1 3 1 1 1 5 4 1 1 1 1 2 1 1 1 2 1	75 35 11 44 5,517 3,566 15 3,079 2,208 447 30 6,342 1,592 588 106 36	137 886 690 2,171 1,084 150 	75 35 11 181 6,403 3,566 4,379 1,531 180 6,342 1,592 588 106 36	12,38, 55,58 13,28 9,754,000 4,912,61: 7,310,23 1,378,45 427,666 4,000 21,83 949,700 784,644 43,456 22,87
Total	31	23,796	5,209	29,005	25,690,710

COAL-CUTTING MACHINERY

	No. of	Machines Opera	ated by :	Tons of Coa	1 Mined by :
Area	Electricity	Compres	ssed Air	Electricity	Compressed
	Hiecoricity	Picks	Machines	Dictorio	Air
Carbon. Cascade. Champion. Crowsnest. Drumheller Edmonton. Lethbridge. Redcliff.	1 2 1 6 13 1 2	8 181 	2	806 120,704 174,785 67,000 782 1,850	62,382 30 332,344
Total	26	189	2	365,927	394,756

ACCIDENTS DURING 1966, CLASSIFIED ACCORDING TO THE MINES IN WHICH THEY OCCURRED

Below Ground To	Serious Serious Serious Total Total	1 6 7 9 1 11 12 20	.:	
pı	LetoT	1 8 8 7	H :	
Above Ground	Serious	1 2 3 3 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4	H:	
Abov	1sts1		• •	
		* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	
	Name of Operator	Bituminous The Canmore Mines Limited (2) Coleman Collieries Ltd. (1747) Coleman Collieries Ltd. (1695)	Sub-Bituminous Alberta Cosl Ltd. (1757) Star-Key Mines Limited (1626)	

ACCIDENTS AS THEY OCCURRED BY MONTHS DURING THE YEAR 1966

	A	oove G	round			Below	Ground	i	Total Above
Months	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	and Below Ground
January. February March. April May June July August. September October November December		1 1		 1 1 2 1 2 2 1			4 3 1 1 3 2	5 3 1 1 3 1 1 4 2	5 42 2 3
Total		3	9	12	1	1	19	21	33

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND BELOW GROUND DURING THE YEAR 1966

	Above (Ground		1	Below (Ground		Total Above
Causes								and Below Ground
Fall of roof or sides	 1 1	 2 6 1	 7 2	1	1	4 5 3 3 2 2	4733322	10 10 3 4 2
Total	 3	9	12	1	1	19	21	33

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND BELOW GROUND FOR THE YEAR 1966, CLASSIFIED ACCORDING TO THE AREA IN WHICH THEY OCCURRED

BITUMINOUS

						~			
	A	bove G	round		1	Below C	round		Total Above
Area	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	and Below Ground
Cascade Crowsnest	••	2	8	2 9		1	6	7 12	9 21
Total		3	8	11	1	1	17	19	30
	SUB-	BITUMI	NOUS						
EdmontonPembina	••	::	1	1		::	2	2	2
Total			1	1			2	2	3

FATAL ACCIDENTS IN MINES

George W. Kubicek, Motorman, 58, on September 6th, at the mine operated by The Ganmore Mines, Limited, Canmore, While attempting to chain the empty track at Side Track Parting in #1 West Gangway, No. 5 Mine, he caught his head between the stringer and the motor on the loaded track, causing Tatal injuries.

NUMBER OF TONS PRODUCED PER ACCIDENT BITUMINOUS COAL FIELD

		No. of	Tons Produce	d Per Accident	3
Area	Output	Fatal	Serious	Slight	Total
Group 1: Cascade	215.140	245,469	122 725	10.012	27 20
Group 2:	245,469	245,409	122,735	40,912	27,27
Crowsnest	632,974		316,487	33,315	30,14
Lethbridge	1,126	•••			
Total	970 560	970 560	210 #02	25 192	20 31
Total	879,569	879,569	219,892	35,183	29,31
	SUB-BITUMIN	OUS COAL FIELD)		1
Group 4:	20.252				
Ardley	30,358				
Carbon	9,028	•••			1
Champion	1,507				
Drumheller	231,893	• • • •	•••	10 111	10:33
Edmonton Pembina	80,288		:::	40,144	1,133,18
Taber	60,670	•••		1,1,0,100	عور زيدوند
Wetaskiwin Group 5:	1,372	•••			
Camrose	17,808	• • •	•••	• • • • • • • • • • • • • • • • • • • •	
Castor Redcliff	774,339	• • • •	• • • • • • • • • • • • • • • • • • • •		1 ::
Sheerness	199,248				
Tofield	15,504				
Westlock	24,250	•••			-

CLASSIFICATION OF ACCIDENTS ACCORDING TO OUTPUT OF MINES WHICH PRODUCED DURING THE YEAR 1966

a transfer	Under 1.000	1,000 to	5,000 to	10,000 to	50,000 to	100,000 to	150,000 to	109,000 to 150,000 to 200,000 to	Over	Total
College	tons	tons	tons	tons	tons	tons	tons	tons	tons	10007
Fatal	;	:	:	:	:	:	:	г	:	н
Serious	:	:	:	:	:	:	:	~	2	4
Slight	:	:	:	:	т.	:	:	9	19	28
Total	:	:	:		9	:	:	6	21	33
		-	TONS OF COAL	TONS OF COAL PRODUCED PER ACCIDENT	ACCIDENT					
4 t s								509.928		3 1.67 254
Serious	: :		:	:	:	:	:	254,964	1,078,224	418,998
Slight	:	:	:	:	123,270	:	:	886,48	113,497	123,830
Total	:	:	:	:	123,270	:	:	56,659	102,668	105,068

ACCIDENTS

SUMMARY TABLE SHOWING ACCIDENTS OCCURRING IN THE MINES FROM 1947 to 1966 INCLUSIVE, REPORTABLE UNDER THE MINES REGULATION ACT.

37			cidents		Tons of Coa	l Mined Per	Accident
Year	Output	Fatal	Serious	Slight	Fatal	Serious	Slight
1947. 1948. 1949. 1950. 1951. 1952. 1952. 1953. 1954. 1955. 1956. 1977. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1964. 1965.	8,074,596 8,111,013 8,616,983 8,118,206 7,661,276 7,194,472 5,917,423 4,859,136 4,456,578 4,329,639 3,155,354 2,519,339 2,549,517 2,404,093 2,027,826 2,087,310 2,289,943 2,771,133 3,413,928 3,467,254	15 13 13 20 9 7 10 8 3 6 2 6 6 1 2 1 4 1	121 91 89 86 85 79 51 54 25 19 18 16 9 5 3 3	117 93 108 97 53 79 60 41 52 33 15 8 10 21 11 20 13 28	538,306 623,924 662,076 405,910 851,253 1,027,782 951,742 607,392 1,485,526 721,607 1,577,677 417,970 2,549,517 1,202,047 2,027,826 521,827 2,287,943 2,971,133 568,988 3,467,254	66,732 89,132 96,708 94,398 90,133 91,069 100,295 95,277 82,529 127,342 126,214 132,628 141,639 150,256 225,314 417,462 763,314 990,378 1,137,976	69,014, 87,215 79,694 83,693 144,552 91,069 98,623 118,516 85,703 131,201 210,357 314,992 254,952 114,481 184,348 90,753 208,177 148,557

COMPARISON OF PROTECTIVE CLOTHING USED FOR THE YEARS 1964, 1965 and 1966.

Clothing	1964	1965	1966
Hard Hats	1,010	977	873
Safety Shoes, pairs	642	660	533
Coggles, pairs	180	177	164
Knee Pads, pairs	30	25	6

COMPARISON OF ACCIDENTS PER 1,000,000 TONS AND PER 1,000 MEN EMPLOYED, 1947 - 1966

70cal No. 7car Tonnage of Total No. 1947 of 1948 of 1948 of 1949 of 19	1,000,000 1,000,000 1,000,000 1,000,000 1,000,000	employed 1,000 men 2,000 m	.ov 12121 No.	15.53.28 tons	7.79 employed 93.779 employed 93.779 93.779		1		T,000,000	7,7 cm cmployed
8,074,596 9,111,033 8,616,938 8,118,206 7,104,276 7,104,425 1,104,425 1,104,425 1,104,425 1,104,425 1,104,425 1,105,738 1,105,738 1,105,738 1,105,738 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,534 2,543,544 2,543,544 2,543,544 2,543,544 2,543,544 2,543,544 2,543,544 2,543,544 2,543,544 2,743					L		1			28.84
8,011,033 8,682 8,111,033 8,682 8,118,206 7,999 7,061,278 6,739 7,194,472 6,736 4,485,778 6,719 4,485,778 7,719 4,485,778 7,719 4,485,778 7,719 2,543,517 2,720 2,543,517 1,720					_				31.33	22.22
8,016,933 8,682 8,119,006 7,999 7,194,427 6,739 7,194,427 6,739 7,194,425 7,195,736 1,456,738 5,700 1,456,738 5,001 1,456,738 5,401 2,543,534 2,775 2,543,537 2,725					_				24.29	27. 10
1.118,206 7,999 7,661,276 7,339 7,194,476 7,339 5,971,427 5,760 4,895,336 4,719 4,329,499 3,44,3 2,549,517 1,720 2,549,517 1,720					_	_		_	21, 37	
7, 184, 276 7, 184, 122 7, 184, 123 6, 191, 423 6, 191, 423 6, 191 1, 4,55, 578 1, 4,55, 578 2, 519, 537 2, 543, 537 2, 543, 537 1, 155, 154 2, 543, 537 1, 155, 154						_	11.95 12.13	203	25.01	25.35
5,913,472 5,936 5,913,423 5,760 4,889,136 4,719 4,585,78 3,801 4,529,89 3,443 1,155,354 2,795 2,519,517 1,720									19.19	20.03
5,47,423 4,895,378 4,465,778 4,465,778 1,155,354 2,155,354 2,543,517 2		_							22.93	23.70
4,459,736 4,719 4,456,578 3,401 4,329,639 3,443 3,155,354 2,795 2,549,519,939 2,021 2,549,517 1,720	_		_						21.80	22.10
4,329,578 3,801 4,329,539 3,443 3,155,554 2,795 2,519,517 1,720 2,549,517 1,720	_	_	_						20.50	21.19
4,,329,639 3,443 4,329,639 3,443 2,519,334 2,021 2,549,539 2,021 2,549,537 1,720	_	-	-	_	_			_	24.46	28.68
2,55,34, 2,519,939 2,021 2,549,517 1,720	_		_	_					16,86	21,20
2,519,939 2,021		_		_	_				13,31	15.03
2,549,517 1,720	_		_	_	_				13,10	16.33
			_			_			11.37	16.86
2,404,093 1,729									16.22	22,55
2,027,826 1,323	_			_					10,36	15,87
2,087,310 1,281		_	_	_				_	15,33	24.98
2,289,943 1,151		_				_		_	6.55	13.03
2,971,133 1,188			_		_	_			8,08	20.20
1,181			_	_	_			_	6.44	18.63
1,146		_							9,52	28.79
		_	_							

BOARD OF EXAMINERS

The Board of Examiners during the year 1966 consisted of the following:

As representing:

The Mine Inspectorate: J.A. Dutton, Director of Mines.

Managers: H. Crawford and E.J. Panchysyn.

Underground Miners: G.B. Hunter.

Strip Mine Workers: K.D. Wiltse.

Secretary: M.B. Rasmussen.

Examinations for the following classes of certificates were held in Edmonton and Calgary on May 3rd, 4th and 5th, 1966.

One candidate presented himself for examination for First Class (Underground) Certificate, and he was successful.

Three candidates presented themselves for examination for Third Class (Underground) Certificates, and all were successful.

 $\,$ Two candidates presented themselves for examination for First Class Mine Electricians' Certificates, and one was successful.

Two candidates presented themselves for examination for Surveyors' (Strip Mine) Certificates, and one was successful.

Three candidates presented themselves for examination for Managers' (Strip Mine) Certificates, and two were successful.

Four candidates presented themselves for examination for Foremen's (Strip Mine) Certificates, and all were successful.

The following list gives the names of successful candidates.

UNDERGROUND MINES

FIRST CLASS

Name	Address	Cert. No.	Date of Certificate
Diskin, Jack S.	Coleman	1	17-10-66
	THIRD CLASS		
Wallinder, Raymond A. Rockwood, Orion A. Lowther, William B.	Hillcrest Edmonton Canmore	22 23 24	6- 6-66 7- 6-66 13- 6-66
PIF	ST CLASS MINE ELECTRIC	IAN	
Gillespie, Hector W.	Lethbridge	14	8- 6-66
	STRIP MINES MANAGER		
Bianchini, Meno J. Evans, Ronald E.	Hillcrest Forestburg	17 18	6- 6-66 8- 6-66

FOREMAN

Wiens, Irvine J. Bellmond, Philip I.	Wabamun Seba Beach	46 47	3- 6-6 6- 6-6
Blackmore, Charles H.	Stettler	48	27~ 6-6
	SURVEYOR		

In addition to the foregoing, the following certificates were issued to candidates successful in the examinations held in June, 1965.

STRIP MINES

FOREMAN

Name	Address	Cert. No.	Date of Certificat
Michel, Peter P.	Wabamun	44	18- 1-66
	BLASTER		
Fossen, Joy O.	Forestburg	8	14- 2-66

Also in addition to the foregoing, the following Interchange First Class Certificate (Underground Mine) was issued: $\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2$

Chamberlin, James Harold Hall Coleman

2

17-10-66

The following substitute certificate as First Class Mine Electrician was issued:

Smith, Charles A.

Canmore

15

22- 6-66

The following certificate as Manager (Strip Mine) was issued, without examination, under Section $74\ (2)$ of The Coal Mines Regulation Act.

Diskin, Jack S.

Coleman

19

24-10-66

EXAMINATIONS UNDER THE QUARRIES REGULATION ACT

Written examinations for certificates under the above Act were held in Edmonton and Calgary on May 3rd, 1966.

Two candidates presented themselves for examination for Managers' Certificates, and both were successful.

Two candidates presented themselves for examination for Foremen's Certificates, and one was successful.

The following list gives the names of successful candidates.

QUARRIES

MANAGER

Name	Address	Cert. No.	Date of Certifica
Brown, Richard G.F. Jordon, James M.	Cadomin Exshaw	25 26	17- 5-66 17- 5-66
	FOREMAN		
Moore, John A.G.	Edmonton	47	17- 5-66

Blaster's Certificate.

BLASTER

Fodor, Daniel	Tar Island	65	29- 8-66

REPORT OF ANALYSIS OF COMMERCIAL COAL SAMPLES

Samples taken during 1965 and 1966 and published in accordance with Regulation 17 (5) of the Coal Sales Regulations established pursuant to The Coal Sales Act.

Mine	Size	Moisture	Ash	Volatile Matter	Carbon	Sulphur	BTU/1b
Coleman Collieries Limited (1965)	Export Export Tent	2.4	8.3	22.7 22.5	66.6 67.3	0.7	13,830
	Mountain	2.5	9.6	22.9	65.0	0.7	13,570
Battle River Coal Company, Limited (1965)	Lump Egg Nut Stoker Slack	24.7 27.2 25.1 25.8 24.9	5.7 5.6 7.5 7.1 6.6	29.1 28.6 27.1 29.2 30.2	40.5 38.6 40.4 37.9 38.3	0.7 0.8 0.8 0.4 0.4	8,850 8,590 8,560 8,560 8,740
Forestburg Collieries Limited (1965)	Lump Stove Nut Stoker Slack	25.1 25.2 25.7 26.9 27.1	6.0 5.5 5.8 6.0 7.0	38.4 29.4 29.3 28.3 27.9	30.5 39.9 39.2 38.8 38.0	0.8 0.7 0.8 0.8 0.5	8,800 8,690 8,810 8,520 8,460
Stettler Coal Company Limited (1965)	Lump Nut Stoker Pea	24.3 25.0 25.8 24.3	5.5 6.7 6.9 5.9	31.7 29.5 29.0 29.4	38.5 38.8 38.3 40.4	0.3 0.4 0.4 0.4	8,970 8,740 8,560 8,980
Battle River Coal Company, Limited, (Roselyn Mine). (1966)	Lump Egg Nut Stoker Slack	26.6 26.5 25.4 25.5 25.4	6.7 6.2 6.0 6.1 6.6	28.8 29.4 30.0 29.5 29.9	37.9 37.9 38.6 38.9 38.1	0.3 0.3 0.4 0.4 0.4	8,280 8,440 8,510 8,460 8,410
Alberta Coal Sales Limited (1965)	Lump Egg Nut Stoker Slack	14.4 13.5 14.3 14.4 15.5	9.7 9.7 11.0 10.8 11.1	29.8 30.7 29.9 29.9 29.0	46.1 46.1 44.8 44.9 44.4	1.0 1.2 1.1 1.2 1.1	10,066 10,266 9,886 9,966 9,736
North Point Coal Co., Ltd. (1965)	Lump Stove Nut Stoker Slack	32.8 32.6 32.7 33.3 33.9	3.4 3.9 4.4 5.9 4.6	30.6 32.4 29.7 26.2 31.0	33.2 31.1 33.2 34.6 30.5	0.3 0.3 0.3 0.3 0.3	7,870 7,860 7,790 7,570 7,680

LIST OF MINES PRODUCING DURING

.0	Bituminous
ar 1966	Coal:-
Year	Jo
The	Character

DATE OF OPENING	1891	1949 1960 1957 1966	1965	
REGISTERED TRADE NAME	Canmore Smokeless Coal, Canmore Briquettes	Coleman Coal Standard Vicary Creek Coal	Diamond Coal	
MINE LOCATION L.S. S. T. R. M.	Parts 24-10-5	12- 7- 6-5 8- 9- 6- 2-5 16-19- 9- 4-5 5&6-10- 4-5	2 & S½ 7-21-10-21-4	
MINE OFFICE ADDRESS	Canmore	Coleman Blairmore Coleman Coleman	Shaughnessy	
OPERATOR	Cascade Area The Cannore Mines Limited	Crowsnest Area Coleman Collisties Ltd Coleman Collisties Ltd Coleman Collisties Ltd Ishbuites Ltd	C.S.D. Coal Company Ltd	,
MINE NO.	ત	1695 1731 1747 1764	1762	

LIST OF MINES PRODUCING DURING

The Year 1966 Character of Coal:- Sub-bituminous

DATE OF OPENING		1919		1932		1917		1898 1909 1921			1922	 	
REGISTERED TRADE NAME		Sisson's Coal		Birnwel Coal		Burnstad's Coal,		Carbon Sunrise Coal. New Ghost Pine Coal. Meadow Bank Coal.		Cordel Coal, Vesta Coal, Sterling,	Victory coal, blue riame coal Diplomat Coal, Ambassador		
MINE LOCATION L.S. S. T. R. M.		S.W. \$ of 2-39-23-4 7-20-38-23-4		Pts. of 15-17-17-4		N. \$ of 6-14-48-18-4 14&15-17-46-19-4		15-11-29-23-4 4&9-31-22-4 15&16-14-33-23-4		15&16-20-40-15-4	N.W. & of 6-41-15-4 11-25-40-16-4		
MINE OFFICE ADDRESS		Alix		Bow City		Round Hill		CarbonThree Hills		Halkirk	Forestburg		
OPERATOR	Ardley Area	Sisson's Mine	Brooks Area	Kleenbirn Collieries Ltd	Camrose Area	Burnstad Coal Ltd	Carbon Area	Alfred Fox	Castor Area	Battle River Coal Co. Ltd	Forestburg Collieries Ltd		
MINE NO.		809		7071		724, 1603		53 194 921		1046	1578		

LIST OF MINES PRODUCING DURING The Year 1966

Character of Coal:-Sub-bituminous

	ł											
DATE OF OPENING		1937			0761	1947	1956	1967		1960 1941 1945 1952		
RECISTERED TRADE NAME		Champion Coal		Meteor Coal, New Star Coal, Western Grown Coal, Western Monarch Coal, New	Mercury Coal, New Murray Coal, New Midland Coal, New Rosedale Coal, Hy- Grade. Purity Hand	Subway Coal. Atlas Coal, Commander Coal, New Wild	Fire Coal, New Murray Coal, Western Gem, Hy-Grade, Purity Hard	Premier Coal		Slide Hill Coal Egg Lake Coal. Skar-Key Coal. Red Hot Coal.		
MINE LOCATION L.S. S. T. R. M.		13-34-15-23-4		1- 7-27-18-4		15-16-28-19-4 14- 6-27-18-4	2-17-29-20-4	W. \$ 11&E\$ 12 18-28-19-4		N.W. ‡ of 5-51-25-4 W. \$ of 36-56-26-4 I6,10&11-35-54-25-4 S.W. ‡ of 13-52-25-4		
MINE OFFICE ADDRESS		Champion		East Coulee		Rosedale	Drumheller	East Coulee		Edmonton		
OPERATOR	Champion Area	Champion Coal Mine	Drumheller Area	Amalgamated Coals Ltd		Subway Coal Company	Fox Coulee Coals Ltd	Premier Coal	Edmonton Area	Slide Hill Coal Co. Ltd Egg Lake Coal Co. Ltd Star-Key Mines Limited Whitemad Greek Coal Co. Ltd		
MINE NO.		1509		1573		1666	1756	1759		720 1582 1626 1727		

LIST OF MINES PRODUCING DURING The Year 1966 Character of Coal:- Sub-bituminous

DATE OF OPENING		1948 1954 1962		1918		1915		1943		1909		1960		1956	
RECISTERED TRADE NAME		Finter Goal. Pembina Peerless Goal. Whitewood.		Ajax Coal		Roselyn, Berry Creek, Volcano		Majestic Coal, Southalta Coal		Red Flame Coal		Picardville Coal		Blue Bird Coal.	
MINE LOCATION L.S. S. T. R. M.		12-13-49- 3-5 S.W. \$ of 10-54- 7-5 Pts. of 14&15-53- 4-5		1- 6-13- 6-4		S.E. ‡ of 13-29-13-4		1&12-10-17-4		S. ½ of 14-49-18-4		16-35-58-27-4 1-11-60-21-4		12&13-20-48-25-4	
MINE OFFICE ADDRESS		Warburg Evansburg		Medicine Hat		Sheerness		Taber		Ryley		Picardville		Leduc	
OPERATOR	Pembina Area	Warburg Coal Go. Ltd Charles Ostertag. Alberta Coal Limited	Redcliff Area	Ajax Coal Company	Sheerness Area	Battle River Coal Company Limited	Taber Area	Alberta Coal Sales Limited	Tofield Area	Jet Construction Ltd	Westlock Area	Picardville Goal Go. (1960)Ltd North Point Goal Go. Ltd	Wetaskiwin Area	Blue Bird Coal Co. Ltd	
MINE NO.		1670 1739 1757		772		6443		1091		215		1523		1743	

LIST OF QUARRIES PRODUCING DURING

The Year 1966

DATE OF OPENING		1958		1906	1962	1960	1961 1961 1963		1958		1920		1911		1955	
QUARRY LOCATION L.S. S. T. R. M.		5 13-39-27-5		27828-24- 9-5	17,18&19-25-10-5	15,168 2-23- 9-5	12-7-24- 9-5		15&16-31-42-17-4		7- 8- 5-5		21-53-25-4		13-30-46-23-5	
/nô				Pts. of	Pts. Secs.	Pts. ecs.	N.E.				Pts. of		N.E. & of Pts. of			
PRODUCT		Limestone		LimestoneShale	Bldg, Stone	Bldg. Stone	Bidg. Stone		Bentonite		Limestone		ShaleShale		Lime stone	
QUARRY OFFICE ADDRESS		Hinton		Exshaw.	Calgary	Seebe	Canmore		Rosalind		Crowsnest, B.C		Edmonton		Cadomin	
OPERATOR	Brule Area	Athabasca Valley Development Corp. Ltd	Cascade Area	Canada Cement Company Limited	Andle Rock Building Stone Co. Ltd	Logers, Lime Division.	Alberta fundle fock Ltd. Thunderstone Quries Ltd. Better Rock Co. Ltd.	Castor Area	Magcobar Mining Company, Limited	Crowsnest Area	Summit Lime Works Ltd	Edmonton Area	Northwest Ceramics Ltd	. Mountain Park Area	Inland Cement Company Limited	
QUARRY NO.		0,38		2,20	288	20.0	0.0.0		0 37		60		0.02		0 21	

LIST OF QUARRIES PRODUCING DURING The Year 1966

OF VG		4		266		6		87		V C			m ob*	
DATE OF OPENING		1967		1957 1959 1959		1959		1913		1956			1959 1959 1964	
QUARRY LOCATION L.S. S. T. R. M.		5- 3- 4-27-4		5,6,11& 12-20- 8- 3-4 5-20- 8- 4-4 10&15- 9- 8- 4-4		5&8, Sec. 7-56- 2-5		9-13- 6-4		3,4&5-32-21-29-4 7&8-36-21- 1-5		6	3x0-10-60-22-4 15-34-92-10-4 23-92-10-4	
						Pts. Secs. 5&8, Sec.		S.W. & of		Pts.		N.E. & of		
PRODUCT		Limestone		ShaleShaleShale		Bentonite		ShaleShale		Shale		Shale	0il-Sands	
QUARRY OFFICE ADDRESS		Cardston		Medicine Hat Medicine Hat		Onoway		Redcliff Medicine Hat		Calgary		Edmonton	Edmonton	
OPERATOR	Magrath Area	Alberta Oyster Shell Co	Pakowki Area	Medicine Hat Brick & Tile Company, Limited. Medicine Hat Brick & Tile Company, Limited. Medicine Hat Brick & Tile Company, Limited.	Pembina Area	Baroid of Canada, Ltd	Redcliff Area	Medicine Hat Brick & Tile Company, Limited. Medicine Hat Brick & Tile Company, Limited.	No Area	Consolidated Concrete Industries Ltd	No Area	Northwest Ceramics Ltd.,	Syncrude Canada Ltd	
QUARRY NO.		79 0		0 34		64 9		0 7		77 09 0		0 36	0 41	

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